

JAN 25 1982

# DPM 2.09

## MATERIAL SAFETY DATA SHEET

(Approved by U.S. Department of Labor Essentially Similar to Form L58-00S-4)


**CHEMICALS INC.**  
 SUBSIDIARY OF AMERICAN CAN COMPANY

GENERAL OFFICES, RAHWAY, NEW JERSEY 07065

### EMERGENCY PHONE NUMBERS

During Office Hours, 8:30 A.M. - 4:30 P.M.

Call (201) 499-2401

After Hours

Call (201) 499-2445

CHEMICAL NAME: **M&T Coatings**SYNONYMS: **N/A**CHEMICAL FAMILY: **N/A**FORMULA: **Proprietary mixture of solvents & phenolic, epoxy and acrylic resins**MOLECULAR WEIGHT: **N/A**TRADE NAME AND SYNONYMS: **M&T Coating 227-P**

## I. HAZARDOUS INGREDIENTS

MATERIAL	%	TLV (Units)
Methyl Ethyl Ketone	35	200ppm
Cellosolve Acetate	2	100ppm
Diacetone Alcohol	3	50ppm
Aromatic 100	5	Not known

## II. PHYSICAL DATA

BOILING POINT, 760 mm. Hg	about 80°F	FREEZING POINT	
SPECIFIC GRAVITY (H <sub>2</sub> O = 1)	0.9	VAPOR PRESSURE at 20°C.	
VAPOR DENSITY (air = 1)		SOLUBILITY IN WATER, % by wt. at 20°C.	Slight
PER CENT VOLATILES BY VOLUME		EVAPORATION RATE (Butyl Acetate = 1)	
APPEARANCE AND ODOR	Viscous liquid Characteristic odor		

## III. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (test method) <b>SCC</b>	<b>28°F</b>	AUTOIGNITION TEMPERATURE	<b>Not known</b>
FLAMMABLE LIMITS IN AIR, % by volume	LOWER	UPPER	
EXTINGUISHING MEDIA	<input checked="" type="checkbox"/> Water Spray <input checked="" type="checkbox"/> Carbon Dioxide <input type="checkbox"/> Other <input checked="" type="checkbox"/> Foam <input checked="" type="checkbox"/> Dry Chemical		
SPECIAL FIRE FIGHTING PROCEDURES	<input checked="" type="checkbox"/> Avoid Eye and Skin Contact <input checked="" type="checkbox"/> Do Not Breathe Fumes <input type="checkbox"/> Other		
UNUSUAL FIRE AND EXPLOSION HAZARDS	Flammable if exposed to elevated temperatures, sparks or open flame.		

# IV. HEALTH HAZARD DATA

Coating 227-P

THRESHOLD LIMIT VALUE	Not known		
EFFECTS OF OVEREXPOSURE	May cause irritation of eyes and skin on contact or to respiratory tract if inhaled.		
EMERGENCY AND FIRST AID PROCEDURES	<b>EYE</b> Flush with flowing water at least <u>15</u> minutes	Remove contaminated clothing. Wash skin thoroughly with soap and water. For inhalation move exposed individual to a non-contaminated area. Get prompt medical attention.	Never give fluids or induce vomiting if patient is unconscious or having convulsions

# V. REACTIVITY DATA

STABILITY		CONDITIONS TO AVOID	Avoid contact with heat, sparks, and open flame.
UNSTABLE	STABLE		
	X		
INCOMPATIBILITY (materials to avoid)		<input type="checkbox"/> Water <input type="checkbox"/> Acids <input type="checkbox"/> Bases <input type="checkbox"/> Oxidizers <input type="checkbox"/> Reducers <input type="checkbox"/> Other	
HAZARDOUS DECOMPOSITION PRODUCTS			
HAZARDOUS POLYMERIZATION		CONDITIONS TO AVOID	
May Occur	Will not Occur		
	X		

# VI. SPILL OR LEAK PROCEDURES

ENVIRONMENTAL IMPACT IF RELEASED OR SPILLED	Impact is on immediate area of spill. May injure aquatic life if discharged to open waters.
CORRECTIVE ACTION TO BE TAKEN	Confine area of spill. Cover with sand or other inert material. Do not breathe vapors or fumes.
WASTE DISPOSAL METHOD	Incinerate or dispose of as solid waste material. Observe all applicable regulations for chemical pollution control.

# VII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type)	<input checked="" type="checkbox"/> Not normally required <input type="checkbox"/> Other With adequate ventilation none required.		
VENTILATION	LOCAL EXHAUST	Recommended	SPECIAL
	MECHANICAL (general)	Required	OTHER
PROTECTIVE GLOVES Rubber	EYE PROTECTION	<input type="checkbox"/> Not normally necessary <input checked="" type="checkbox"/> Chemical workers goggles <input type="checkbox"/> Other	
OTHER PROTECTIVE EQUIPMENT			

# VIII. SPECIAL PRECAUTIONS

PRECAUTIONARY LABELING	<b>DANGER!</b> Flammable liquid. Keep away from heat, sparks and open flame. Harmful or fatal if swallowed. Vapor harmful. Avoid prolonged contact with skin and breathing of vapor or spray mist. <b>FIRST AID:</b> In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. If inhaled, remove to fresh air. Call a physician. <b>USE ONLY WITH ADEQUATE VENTILATION.</b>
OTHER PRECAUTIONS	Laundry contaminated clothing before reuse.
OTHER HANDLING AND STORAGE CONDITIONS	Store in an area suitable for flammable liquid.

**M&T**  
**CHEMICALS INC.**  
SUBSIDIARY OF AMERICAN CAN COMPANY

GENERAL OFFICES, RAHWAY, NEW JERSEY 07065  
P.O. BOX 1104

*Handwritten signature*  
April 21, 1977

Douglas Aircraft Co.  
3855 Lakewood Blvd.  
Long Beach, CA 90846  
Attn: Mr. M. J. Veneroso

*DPM 2209*

*Primer, Electrical*

Subject: M&T Thinner 300, Unichrome 227-P, Unichrome 218X,  
Thinner 34, Coating 6361 Series, 217Y

In response to your request for information on the  
above-named product (s), we have completed and attached  
Material Safety Data Sheet (s).

If any additional information is required, please  
do not hesitate to contact me.

Very truly yours,

M&T CHEMICALS INC.

*T. G. Meglis*

T. G. Meglis  
Project Engr., Environmental

TGM:cc  
Attachment

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Trademark

Sheet No. OC-227-P

Revision J/FG

## M&T\* PRIMER 227-P

M&T Primer 227-P, an epoxy type primer, is formulated to provide extraordinary adhesion to subsequent coats of organosols or plastisols under a wide range of application schedules.

Initial bond strength of this primer exceeds the strength of the topcoat at drying schedules ranging from air-dry to baking temperatures of 400°F.

For optimum retention of adhesion, M&T Primer 227-P should be baked at metal temperatures of 365° to 400°F. The retention of adhesion is excellent within this baking range. The retention of adhesion in hot aqueous solution is diminished at bakes below 365°F.

M&T Primer 227-P shifts from white to buff color during baking.

### Metal Preparation

The surface to be primed must be clean and dry, free from traces of oil, shop soil or other contaminants.

### Material Specification

Viscosity: 15 to 17 seconds #2 Zahn Cup at 75° to 80°F.

Thinner for viscosity adjustment: Unichrome Thinner 200-T.

Total solids:	23 to 25%
Coverage:	650 to 700 sq. ft./gal. at 0.3 to 0.5 mil
Wt. per gal.:	7.9 to 8.1 lbs.
Flash point:	Less than 80°F

### Application Procedure

M&T Primer 227-P, which is shipped at a viscosity range of 15 to 17 seconds #2 Zahn Cup, is normally

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applied full-bodied without further reduction. At this viscosity, a dried film thickness of 0.3 to 0.5 mils is obtainable. Films heavier than 0.5 mils are to be avoided. M&T Thinner 200-T should be used to maintain the primer at its original viscosity.

On very large articles, it is sometimes necessary to reduce M&T Primer 227-P with M&T Thinner 200-T to maintain primer thickness at less than 0.5 mils. The amount of M&T Thinner 200-T normally will not exceed one volume of thinner to two volumes of primer.

### Spray Application

M&T Primer 227-P should be thinned in the ratio of three volumes of Primer 227-P to one volume of M&T Thinner 200-T. A wet, non-hiding film should be sprayed so as to deposit a total dry thickness of 0.3 to 0.5 mils.

### Drying Schedules

Excellent initial adhesion is obtained using drying schedules ranging from air-dry to bakes of 30 minutes at 400°F.

If plastisol-coated articles such as plating racks and tanks are to be subjected to hot aqueous solutions, a baking cycle of 20 minutes at 365° to 400°F is recommended to maintain retention of adhesion in service. For less severe conditions, any of the following baking schedules may be employed:

1 minute at 425° to 450°F

5 minutes at 375° to 400°F

15 minutes at 365° to 375°F

(over)

## M&T CHEMICALS INC.

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#### *PRECAUTIONARY INFORMATION*

*Caution:* This coating material should be stored and used in accordance with normal standards of good practice for handling industrial paints.

*Storage:* Contains volatile solvents. Keep away from heat, sparks and open flames. Store at temperatures above freezing and below 105°F. Keep containers closed when not in use.

*Use:* Maintain adequate ventilation in working area. Wear approved respirators and protective clothing when working in confined areas. Avoid repeated breathing of concentrated vapors. Prolonged contact of liquid material with the skin may be irritating; wash exposed surface thoroughly with soap and water. In case of eye contact, flush out the eyes with water for 15 minutes and consult a physician.

#### *For Industrial Use Only*

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